

Patent Claims

1. Distributor device for unset concrete, the device including a conveyor conduit which on the inlet side is connectible with the pressure outlet (78) of the concrete pump (72) and which includes an outlet part (22, 26, 30) moveable to a location to be concretized via an actuating device (38, 40), thereby characterized, that the outlet part of the conveyor conduit is provided with an associated actuating device (38, 40) on a self-propelled vehicle chassis (14) separate from the concrete pump (68, 72) and on the inlet side can be joined via an intermediate conduit (50), which is moveable at least in part, to the pressure outlet (78) of the concrete pump (72).
2. Distributor device according to Claim 1, thereby characterized, that the vehicle chassis (14) includes a motor-driven chassis (12).
3. Distributor device according to Claims 1 or 2, thereby characterized, that the chassis (12) and the actuating device (38, 40) are controllable via a wireless remote control.
4. Distributor device according to one of Claims 1 through 3, thereby characterized, that the vehicle chassis (14) includes a driver cabin (16) as well actuating elements for controlling movement and the actuating device (38, 40).
5. Distributor device according to one of Claims 1 through 4, thereby characterized, that the vehicle chassis (14) includes a chain or caterpillar drive.
6. Distributor device according to one of Claims 1 through 4, thereby characterized, that the vehicle chassis includes a set of wheels.
7. Distributor device according to one of Claims 1 through 5, thereby characterized, that the vehicle chassis (14) includes outriggers (18) supportable upon the ground (20)
8. Distributor device according to one of Claims 1 through 7, thereby characterized, that the outlet part (22, 26, 30) of the conveyor conduit includes at least three sequentially arranged pipe pieces (22, 26, 30) pivotable relative to each other about horizontal axis by motor or hydraulic means at articulated linkages (24, 28), of which an inlet side pipe piece (22) is provided fixed to the vehicle chassis and is connectible on its inlet and via the intermediate conduit (50) with the concrete pump (72), and of which an outlet side pipe piece (30) includes an outlet opening or a thereto connected end hose (32).

9. Distributor device according to Claim 8, thereby characterized, that the chassis' fixed pipe piece (22) is oriented preferable horizontal in the direction of forward motion of the vehicle chassis (14).
10. Distributor device according to Claims 8 or 9, thereby characterized, that the pipe pieces (22, 26, 30) are provided on their each other facing ends respectively with a pipe elbow (36) and a articulated linkage (24, 28) in the form of an articulated linkage with horizontal rotation axis.
11. Distributor device according to one of Claims 1 through 10, thereby characterized, that the intermediate conduit (50) is formed of pipe pieces (56, 58) and joined pivotable in the manner of a scissors axis with each other for elongation or shortening about preferable vertical scissors axis.
12. Distributor device according to one of Claims 1 through 10, thereby characterized, that the intermediate conduit (50) can be rolled up for elongation or shortening.
13. Distributor device according to one of Claims 1 through 12, thereby characterized, that the intermediate conduit (50) is connectible to the outlet of a pipe group connected to a distribution boom of a mobile or stationary concrete pump.
14. Distributor device according to one of Claims 1 through 12, thereby characterized, that the outlet part (22,26, 30) of the conveyor conduit is connectible to the outlet of a stationary conduit in communication with a concrete pump.
15. Distributor device according to one of Claims 1 through 14, thereby characterized, that the outlet part (22, 26, 30) of the conveyor conduit provided on the vehicle chassis (14) is transportable with the associated actuating device (38, 40) on a carrier platform (80) of a mobile concrete pump (68).
16. Mobile concrete pump with a carrier platform (80) and a pipe conduit (54) connected on the pressure side of a concrete pump (72) and led along a distribution boom (70), thereby characterized, that the carrier platform (80) includes a receptacle (82) for the transport of the mobile distributor device (10) according to Claims 1 through 15.
17. Mobile concrete pump according to Claim 16, thereby characterized, that the outlet part (22, 26, 30) of the conveyor conduit provided on the distributor device (10) is connectible in the operating condition with the pipe conduit (54) of the distribution boom (70).

18. Mobile concrete pump according to Claims 16 or 17, characterized by a lift device provided on the chassis (80) of the concrete pump for loading and unloading of the mobile distributor device (10).
19. Mobile concrete pump according to Claim 18, thereby characterized, that the distribution boom (70) is designed to be simultaneously the lift device for loading and unloading the mobile distributor device (10).
20. Mobile concrete pump according to Claims 16 or 17, thereby characterized, that the lift device is in the form of a loading chassis fixed crane (21).
21. Mobile concrete pump according to Claim 18, thereby characterized, that the lift device is in the form of a ramp that can be driven up by the mobile distributor device.